AMENDMENTS TO THE CLAIMS:

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This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (currently amended) An optical characteristic measuring apparatus for measuring [[the]] characteristics of devices under test having [[the]]a first optical transmission line letting light through in one direction only and [[the]]a second optical transmission line letting light through only on [[the]]a direction opposite to the aforementioned direction comprising:
- a variable wavelength light source for generating a variable wavelength light, the wavelength of which is variable;
- a first light modulating means for introducing into said first optical transmission line [[the]]a first incident light obtained by modulating said variable wavelength light by a [[the]] frequency of an [[the]] electrical signal inputted;
- a first optical/electrical converting means for converting by [[the]]a first optical/electrical conversion process the first incident light having penetrated said first optical transmission line;
- a fixed wavelength light source for generating a fixed wavelength light, the wavelength of which is fixed;
 - a signal source for generating reference electrical signal signals of given frequencies;
- a second light modulating means for injecting into said second optical transmission line [[the]]a second incident light obtained by modulating said fixed wavelength light by a [[the]] frequency of said reference electrical signals signal; and
- a second optical/electrical converting means for converting by [[the]a second optical/electrical conversion process the second-outgoing incident light having penetrated said second optical transmission line; and for outputting the converted second outgoing light electrical signal onto said first light modulating means.

2-4. (cancelled)

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5. **(currently amended)** The optical characteristic measuring apparatus according to claim 1 comprising:

a phase comparing means for measuring [[the]]a phase difference between [[the]]an electrical—signals signal for measurement—outputted output by said first optical/electrical converting means and said reference electrical signals; and

a characteristic computing means for computing [[the]]a group delay characteristic or [[the]]a dispersion characteristic of the devices under test by using said phase difference.

6. (cancelled)

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- 7. (currently amended) A light generating apparatus used in an apparatus for measuring [[the]] characteristics of devices under test having [[the]]a first optical transmission line letting light through only in one direction and [[the]]a second optical transmission line letting light through only on [[the]]a direction opposite to said one direction comprising:
- a variable wavelength light source for generating a variable wavelength light, the wavelength of which is variable;
- a first light modulating means for introducing into said first optical transmission line [[the]]a first incident light obtained by modulating said variable wavelength light by a [[the]] frequency of an electrical signals signal inputted; and
- a second optical/electrical converting means for converting by [[the]] an optical/electrical conversion process [[the]] a second outgoing incident light having penetrated said second optical transmission line and for outputting the converted second outgoing light electrical signal onto said first light modulating means.
- 8. (currently amended) An optical characteristic measuring apparatus for measuring [[the]] characteristics of devices under test having a first optical transmission line letting light through only in one direction and a second optical transmission line letting light through only in [[the]]a direction opposite to said one direction comprising:
- a first optical/electrical converting means for converting by [[the]]a first optical/electrical conversion process [[the]]a first incident light having penetrated said first optical transmission

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line;

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a fixed wavelength light source for generating a fixed wavelength light, the wavelength of which is fixed;

a signal source for generating reference electrical-signals of given frequencies signal; and

a second light modulating means for introducing into said second optical transmission line [[the]]a second incident light obtained by modulating said fixed wavelength light by a [[the]] frequency of said reference electrical-signals_signal.

9-12. (cancelled)

- 13. (currently amended) An optical characteristic measuring method for measuring [[the]] characteristics of devices under test having [[the]]a first optical transmission line letting light through in one direction only and [[the]]a second optical transmission line letting light through only on [[the]]a direction opposite to the aforementioned direction comprising:
- a variable wavelength light generating step for generating a variable wavelength light, the wavelength of which is variable;
- a first light modulating step for introducing into said first optical transmission line [[the]]a first incident light obtained by modulating said variable wavelength light by a [[the]] frequency of an [[the]] electrical signal inputted;
- a first optical/electrical converting step for converting by [[the]]a first optical/electrical conversion process the first incident light having penetrated said first optical transmission line;
- a fixed wavelength light generating step for generating a fixed wavelength light, the wavelength of which is fixed;
- a signal generating step for generating reference electrical-signals of given frequencies signal;
- a second light modulating step for injecting into said second optical transmission line the second incident light obtained by modulating said fixed wavelength light by <u>a</u> [[the]] frequency of said reference electrical-signals signal; and
- a second optical/electrical converting step for converting by [[the]] a second optical/electrical conversion process the second-outgoing incident light having penetrated said

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second optical transmission line; and for outputting the converted second outgoing light <u>electrical signal</u> onto said first light modulating step.

14-15. (cancelled)

- 16. (currently amended) A light generating method used in a method for measuring [[the]] characteristics of devices under test having [[the]]a first optical transmission line letting light through only in one direction and [[the]]a second optical transmission line letting light through only on [[the]]a direction opposite to said one direction comprising:
- a variable wavelength light generating step for generating a variable wavelength light, the wavelength of which is variable;
- a first light modulating step for introducing into said first optical transmission line [[the]]a first incident light obtained by modulating said variable wavelength light by a [[the]] frequency of an electrical signals signal inputted; and
- a second optical/electrical converting step for converting by [[the]]an optical/electrical conversion process [[the]]a second-outgoing incident light having penetrated said second optical transmission line and for outputting the converted second outgoing light electrical signal onto said first light modulating step.
- 17. (currently amended) An optical characteristic measuring method for measuring [[the]] characteristics of devices under test having a first optical transmission line letting light through only in one direction and a second optical transmission line letting light through only in [[the]]a direction opposite to said one direction comprising:
- a first optical/electrical converting step for converting by [[the]]an optical/electrical conversion process [[the]]a first incident light having penetrated said first optical transmission line;
- a fixed wavelength light generating step for generating a fixed wavelength light, the wavelength of which is fixed;
- a signal generating step for generating a reference electrical-signals of given frequencies signal; and

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a second light modulating step for introducing into said second optical transmission line [[the]]a second incident light obtained by modulating said fixed wavelength light by a [[the]] frequency of said reference electrical-signals signal.

18-21. (cancelled)

- 22. (currently amended) A computer-readable medium having a program of instructions for execution by [[the]]a computer to perform an optical characteristic measuring process for measuring [[the]] characteristics of devices under test having [[the]]a first optical transmission line letting light through in one direction only and [[the]]a second optical transmission line letting light through only on [[the]]a direction opposite to the aforementioned direction, said optical characteristic measuring process comprising:
- a variable wavelength light generating processing for generating a variable wavelength light, the wavelength of which is variable;
- a first light modulating processing for introducing into said first optical transmission line [[the]]a first incident light obtained by modulating said variable wavelength light by a [[the]] frequency of an [[the]] electrical signal inputted;
- a first optical/electrical converting processing for converting by [[the]]a first optical/electrical conversion process the first incident light having penetrated said first optical transmission line;
- a fixed wavelength light generating processing for generating a fixed wavelength light, the wavelength of which is fixed;
- a signal generating processing for generating a reference electrical signals of given frequencies signal;
- a second light modulating processing for injecting into said second optical transmission line [[the]]a second incident light obtained by modulating said fixed wavelength light by a [[the]] frequency of said reference electrical signals signal; and
- a second optical/electrical converting processing for converting by [[the]] a second optical/electrical conversion process the second-outgoing incident light having penetrated said second optical transmission line; and for outputting the converted second-outgoing light

electrical signal onto said first light modulating processing.

23-24. (cancelled)

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25. (currently amended) A computer-readable medium having a program of instructions for execution by [[the]]a computer to perform a light generating process used in a process for measuring [[the]] characteristics of devices under test having [[the]]a first optical transmission line letting light through only in one direction and [[the]]a second optical transmission line letting light through only on [[the]]a direction opposite to said one direction, said light generating process comprising:

a variable wavelength light generating processing for generating a variable wavelength light, the wavelength of which is variable;

a first light modulating processing for introducing into said first optical transmission line [[the]]a first incident light obtained by modulating said variable wavelength light by a [[the]] frequency of an electrical signals signal inputted; and

a second optical/electrical converting processing for converting by [[the]]an optical/electrical conversion process [[the]]a second-outgoing incident light having penetrated said second optical transmission line and for outputting the-converted second-outgoing light electrical signal onto said first light modulating processing.

- 26. (currently amended) A computer-readable medium having a program of instructions for execution by [[the]]a computer to perform an optical characteristic measuring process for measuring [[the]] characteristics of devices under test having a first optical transmission line letting light through only in one direction and a second optical transmission line letting light through only in the direction opposite to said one direction, said optical characteristic measuring process comprising:
- a first optical/electrical converting processing for converting by [[the]]an optical/electrical conversion process [[the]]a first incident light having penetrated said first optical transmission line;
 - a fixed wavelength light generating processing for generating a fixed wavelength light,

the wavelength of which is fixed;

a signal generating processing for generating a reference electrical signals of given frequencies signal; and

a second light modulating processing for introducing into said second optical transmission line [[the]]a second incident light obtained by modulating said fixed wavelength light by a [[the]] frequency of said reference electrical-signals signal.

27-30. (cancelled)